

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/031,841A
Source: PGT/10
Date Processed by STIC: 2/14/05

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/031,841A

DATE: 02/14/2005
TIME: 07:44:07

Input Set : A:\Kni004cp.app
Output Set: N:\CRF4\02142005\J031841A.raw

3 <110> APPLICANT: FRASER, DOUGLAS
4 ST. GALLAY, STEVEN
6 <120> TITLE OF INVENTION: HUMAN HOMOLOGUE OF BOVINE NEUROENDOCRINE SECRETORY PROTEIN,
7 NESP55, POLYNUCLEOTIDES AND USES THEREOF LINKED WITH OBESITY
9 <130> FILE REFERENCE: KNI-004CPUS
11 <140> CURRENT APPLICATION NUMBER: 10/031,841A
12 <141> CURRENT FILING DATE: 2002-01-22
14 <150> PRIOR APPLICATION NUMBER: PCT/EP00/06921
15 <151> PRIOR FILING DATE: 2000-07-20
17 <150> PRIOR APPLICATION NUMBER: GB 9917165.4
18 <151> PRIOR FILING DATE: 1999-07-22
20 <160> NUMBER OF SEQ ID NOS: 17
22 <170> SOFTWARE: PatentIn 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2235
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (3)...(761)
33 <400> SEQUENCE: 1
34 ga att cgg ctc gag gtg cct aag agg atg gat cgg agg tcc cgg gct 47
35 Ile Arg Leu Glu Val Pro Lys Arg Met Asp Arg Arg Ser Arg Ala
36 1 5 10 15
38 cag cag tgg cgc cga gct cgc cat aat tac aac gac ctg tgc ccc 95
39 Gln Gln Trp Arg Arg Ala Arg His Asn Tyr Asn Asp Leu Cys Pro Pro
40 20 25 30
42 ata ggc cgc cgg qca gcc acc qcg ctc ctc tgg ctc tcc tgc tcc atc 143
43 Ile Gly Arg Arg Ala Ala Thr Ala Leu Leu Trp Leu Ser Cys Ser Ile
44 35 40 45
46 gcg ctc ctc cgc gcc ctt gcc acc tcc aac gcc cgt gcc cag cag cgc 191
47 Ala Leu Arg Ala Leu Ala Thr Ser Asn Ala Arg Ala Gln Gln Arg
48 50 55 60
50 gcg gct gcc caa cag cgc cgg agc ttc ctt aac gcc cac cac cgc tcc 239
51 Ala Ala Ala Gln Gln Arg Arg Ser Phe Leu Asn Ala His His Arg Ser
52 65 70 75
54 ggc gcc cag gta ttc cct gag tcc ccc gaa tcg gaa tct gac cac gag 287
55 Gly Ala Gln Val Phe Pro Glu Ser Pro Glu Ser Glu Ser Asp His Glu
56 80 85 90 95
58 cac gag gag gca gac ctt gag ctg tcc ccc gag tgc cta gag tac 335
59 His Glu Glu Ala Asp Leu Glu Leu Ser Leu Pro Glu Cys Leu Glu Tyr
60 100 105 110
62 gag gaa gag ttc gac tac gag acc gag agc gag acc gag tcc gaa atc 383

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63	Glu	Glu	Glu	Phe	Asp	Tyr	Glu	Thr	Glu	Ser	Glu	Thr	Glu	Ser	Glu	Ile	
64				115			120						125				
66	gag	tcc	gag	acc	gac	ttc	gag	acc	gag	cct	gag	acc	gcc	ccc	acc	act	431
67	Glu	Ser	Glu	Thr	Asp	Phe	Glu	Thr	Glu	Pro	Glu	Thr	Ala	Pro	Thr	Thr	
68				130			135						140				
70	gag	ccc	gag	acc	gag	cct	gaa	gac	gat	cgc	ggc	ccg	gtg	gtg	ccc	aag	479
71	Glu	Pro	Glu	Thr	Glu	Pro	Glu	Asp	Asp	Arg	Gly	Pro	Val	Val	Pro	Lys	
72		145					150				155						
74	cac	tcc	acc	ttc	ggc	cag	tcc	ctc	acc	cag	cgt	ctg	cac	gct	ctc	aag	527
75	His	Ser	Thr	Phe	Gly	Gln	Ser	Leu	Thr	Gln	Arg	Leu	His	Ala	Leu	Lys	
76	160			165				170				175					
78	ttg	cga	agc	ccc	gac	gcc	tcc	cca	agt	cgc	gcg	ccg	ccc	agc	act	cag	575
79	Leu	Arg	Ser	Pro	Asp	Ala	Ser	Pro	Ser	Arg	Ala	Pro	Pro	Ser	Thr	Gln	
80				180			185				190						
82	gag	ccc	cag	agc	ccc	agg	gaa	ggg	gag	gag	ctc	aag	ccc	gag	gac	aaa	623
83	Glu	Pro	Gln	Ser	Pro	Arg	Glu	Gly	Glu	Glu	Leu	Lys	Pro	Glu	Asp	Lys	
84		195				200					205						
86	gat	cca	agg	gac	ccc	gaa	gag	tcg	aag	gag	ccc	aag	gag	gag	aag	cag	671
87	Asp	Pro	Arg	Asp	Pro	Glu	Glu	Ser	Lys	Glu	Pro	Lys	Glu	Glu	Lys	Gln	
88		210				215				220							
90	cg	cg	cg	tgc	aag	cca	aag	aag	ccc	acc	cgc	cgt	gac	gcg	tcc	ccg	719
91	Arg	Arg	Arg	Cys	Lys	Pro	Lys	Lys	Pro	Thr	Arg	Arg	Asp	Ala	Ser	Pro	
92		225				230				235							
94	gag	tcc	cct	tcc	aaa	aag	gga	ccc	atc	ccc	atc	cg	cg	cgt	cac		761
95	Glu	Ser	Pro	Ser	Lys	Lys	Gly	Pro	Ile	Pro	Ile	Arg	Arg	His			
96	240			245			250										
98	taatggagga	cgccgtccag	attctccttg	ttttcatgga	ttcaggtgct	ggagaatctg											821
99	gtaaaagcac	cattgtgaag	cagatgagga	tcctgcatgt	taatgggtt	aatggagagg											881
100	gcggcgaaga	ggaccccgag	gctgcaagga	gcaacagcga	ttgtgagaag	gcaaccaaag											941
101	tgcaggacat	caaaaacaac	ctgaaagagg	cgatgaaac	cattgtggcc	gccatgagca											1001
102	acctggtgcc	ccccgtggag	ctggccaacc	ccgagaacca	tttcagatgt	gactacattc											1061
103	tgagtgtgat	gaacgtgcct	gactttgact	tccctcccga	attctatgag	catgccaagg											1121
104	ctctgtggga	ggatgaagga	gtgcgtgcct	gctacgaacg	ctccaacgag	taccagctga											1181
105	ttgactgtgc	ccagtaacttc	ctggacaaga	tcgacgtat	caagcaggt	gactatgtgc											1241
106	cgagcgatca	ggacctgctt	cgctgccgtg	tcctgacttc	tggaaatctt	gagaccaagt											1301
107	tccaggtgga	caaagtcaac	ttccacatgt	ttgacgtggg	tggccagcgc	gatgaacgccc											1361
108	gcaagtggat	ccagtgcttc	aacgatgtga	ctgccccat	cttcgtggtg	gccagcagca											1421
109	gctacaacat	ggtcatccgg	gaggacaacc	agaccaaccg	cctgcaggag	gctctgaacc											1481
110	tcttcaagag	catctggAAC	aacagatggc	tgccgtaccat	ctctgtgatc	ctgttccctca											1541
111	acaaggcaaga	tctgtcgct	gagaaagttc	ttgtgtggaa	atcgaagatt	gaggactact											1601
112	ttccagaatt	tgctcgctac	actactccgt	aggatgtac	tcccgagccc	ggagaggacc											1661
113	cacgcgtgac	ccggcccaag	tacttcattc	gagatgagtt	tctgaggatc	agcactgcca											1721
114	gtggagatgg	gcgtcaactac	tgctaccctc	atttcacatc	cgctgtggac	actgagaaca											1781
115	tccgcccgtgt	gttcaacgac	tgccgtgaca	tcattcagcg	catgcaccc	cgtcagatcg											1841
116	agctgctcta	agaaggaaac	ccccaaattt	aattaaagcc	ttaaggccaa	ttaattaaaa											1901
117	gtggaaacgtt	attgtacaag	cagttaatca	cccaccatag	ggcatgatta	acaaagcaac											1961
118	cttcccttc	ccccggatgtt	ttttgcgaaa	cccccttttc	ccttcagatgt	gcttagatgt											2021
119	tccaaattt	gaaagttaa	ggcggcctac	agaaaaagga	aaaaaggcca	aaaaagttcc											2081
120	ctctcactt	cgtaaaaat	aaataaaaca	gcagcagca	acaaataaaa	tgaataaaaa											2141

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121 gaaacaaatg aaataaaatat tgtgttgtgc agcattaaaa aaaatcaaaa taaaaattaa 2201
122 atgtgagcaa aaaaaaaaaa aaaagggcgg ccgc 2235
124 <210> SEQ ID NO: 2
125 <211> LENGTH: 253
126 <212> TYPE: PRT
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 2
130 Ile Arg Leu Glu Val Pro Lys Arg Met Asp Arg Arg Ser Arg Ala Gln
131 1 5 10 15
133 Gln Trp Arg Arg Ala Arg His Asn Tyr Asn Asp Leu Cys Pro Pro Ile
134 20 25 30
136 Gly Arg Arg Ala Ala Thr Ala Leu Leu Trp Leu Ser Cys Ser Ile Ala
137 35 40 45
139 Leu Leu Arg Ala Leu Ala Thr Ser Asn Ala Arg Ala Gln Gln Arg Ala
140 50 55 60
142 Ala Ala Gln Gln Arg Arg Ser Phe Leu Asn Ala His His Arg Ser Gly
143 65 70 75 80
145 Ala Gln Val Phe Pro Glu Ser Pro Glu Ser Glu Ser Asp His Glu His
146 85 90 95
148 Glu Glu Ala Asp Leu Glu Leu Ser Leu Pro Glu Cys Leu Glu Tyr Glu
149 100 105 110
151 Glu Glu Phe Asp Tyr Glu Thr Glu Ser Glu Thr Glu Ser Glu Ile Glu
152 115 120 125
154 Ser Glu Thr Asp Phe Glu Thr Glu Pro Glu Thr Ala Pro Thr Thr Glu
155 130 135 140
157 Pro Glu Thr Glu Pro Glu Asp Asp Arg Gly Pro Val Val Pro Lys His
158 145 150 155 160
160 Ser Thr Phe Gly Gln Ser Leu Thr Gln Arg Leu His Ala Leu Lys Leu
161 165 170 175
163 Arg Ser Pro Asp Ala Ser Pro Ser Arg Ala Pro Pro Ser Thr Gln Glu
164 180 185 190
166 Pro Gln Ser Pro Arg Glu Gly Glu Leu Lys Pro Glu Asp Lys Asp
167 195 200 205
169 Pro Arg Asp Pro Glu Glu Ser Lys Glu Pro Lys Glu Glu Lys Gln Arg
170 210 215 220
172 Arg Arg Cys Lys Pro Lys Lys Pro Thr Arg Arg Asp Ala Ser Pro Glu
173 225 230 235 240
175 Ser Pro Ser Lys Lys Gly Pro Ile Pro Ile Arg Arg His
176 245 250
179 <210> SEQ ID NO: 3
180 <211> LENGTH: 4
181 <212> TYPE: PRT
182 <213> ORGANISM: Bovine Sp.
184 <400> SEQUENCE: 3
185 Leu Ser Ala Leu
186 1
189 <210> SEQ ID NO: 4
190 <211> LENGTH: 8
191 <212> TYPE: PRT

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Input Set : A:\Kni004cp.app
Output Set: N:\CRF4\02142005\J031841A.raw

192 <213> ORGANISM: Bovine Sp.
194 <400> SEQUENCE: 4
195 Gly Ala Ile Pro Ile Arg Arg His
196 1 5
199 <210> SEQ ID NO: 5
200 <211> LENGTH: 4
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 5
205 Leu His Ala Leu
206 1
209 <210> SEQ ID NO: 6
210 <211> LENGTH: 8
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 6
215 Gly Pro Ile Pro Ile Arg Arg His
216 1 5
219 <210> SEQ ID NO: 7
220 <211> LENGTH: 4
221 <212> TYPE: PRT
222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 7
225 Ser Phe Leu Asn
226 1
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 4
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 8
235 Pro Ser Lys Lys
236 1
239 <210> SEQ ID NO: 9
240 <211> LENGTH: 4
241 <212> TYPE: PRT
242 <213> ORGANISM: Homo sapiens
244 <400> SEQUENCE: 9
245 Met Asp Arg Arg
246 1
249 <210> SEQ ID NO: 10
250 <211> LENGTH: 4
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
254 <400> SEQUENCE: 10
255 Ala Thr Ala Leu
256 1
259 <210> SEQ ID NO: 11
260 <211> LENGTH: 64
261 <212> TYPE: PRT

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Input Set : A:\Kni004cp.app
Output Set: N:\CRF4\02142005\J031841A.raw

262 <213> ORGANISM: Homo sapiens
 264 <220> FEATURE:
 265 <221> NAME/KEY: MOD_RES
 266 <222> LOCATION: (1)..(30)
 267 <223> OTHER INFORMATION: any amino acid, which may or may not be present
 269 <220> FEATURE:
 270 <221> NAME/KEY: MOD_RES
 271 <222> LOCATION: (35)..(64)
 272 <223> OTHER INFORMATION: any amino acid, which may or may not be present
 274 <400> SEQUENCE: 11
 W--> 275 Xaa
 276 1 5 10 15
 278 Xaa Leu His
 279 20 25 30
 281 Ala Leu Xaa
 282 35 40 45
 284 Xaa
 285 50 55 60
 288 <210> SEQ ID NO: 12
 289 <211> LENGTH: 68
 290 <212> TYPE: PRT
 291 <213> ORGANISM: Homo sapiens
 293 <220> FEATURE:
 294 <221> NAME/KEY: MOD_RES
 295 <222> LOCATION: (1)..(30)
 296 <223> OTHER INFORMATION: any amino acid, which may or may not be present
 298 <220> FEATURE:
 299 <221> NAME/KEY: MOD_RES
 300 <222> LOCATION: (39)..(68)
 301 <223> OTHER INFORMATION: any amino acid, which may or may not be present
 304 <400> SEQUENCE: 12
 W--> 305 Xaa
 306 1 5 10 15
 308 Xaa Gly Pro
 309 20 25 30
 311 Ile Pro Ile Arg Arg His Xaa
 312 35 40 45
 314 Xaa
 315 50 55 60
 317 Xaa Xaa Xaa Xaa
 318 65
 321 <210> SEQ ID NO: 13
 322 <211> LENGTH: 11
 323 <212> TYPE: PRT
 324 <213> ORGANISM: Homo sapiens
 326 <400> SEQUENCE: 13
 327 Gln Arg Leu His Ala Leu Lys Leu Arg Ser Pro
 328 1 5 10
 331 <210> SEQ ID NO: 14

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/14/2005
PATENT APPLICATION: US/10/031,841A TIME: 07:44:08

Input Set : A:\Kni004cp.app
Output Set: N:\CRF4\02142005\J031841A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:11; Xaa Pos. 23,24,25,26,27,28,29,30,35,36,37,38,39,40,41,42,43,44,45
Seq#:11; Xaa Pos. 46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64
Seq#:12; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:12; Xaa Pos. 23,24,25,26,27,28,29,30,39,40,41,42,43,44,45,46,47,48,49
Seq#:12; Xaa Pos. 50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:16; Xaa Pos. 1,2,3,4,5,6,7,8,15,17,18,57,58,68,71,80,87,91,92,93,94,95
Seq#:16; Xaa Pos. 98,99,101,103,109,112,120,122,124,133,138,139,153,154,161
Seq#:16; Xaa Pos. 162,165,173,176,194,202,203,204,217,223,224,225,227,228
Seq#:16; Xaa Pos. 240,248,250

VERIFICATION SUMMARY
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Input Set : A:\Kni004cp.app
Output Set: N:\CRF4\02142005\J031841A.raw

L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16